



HPCTUTOR

An Interactive Learning Platform

Monitor | Analyse | Improvise

To promote the widespread adoption of High-Performance Computing (HPC) within the research and education communities, it is necessary to cultivate and nurture a diverse group of HPC practitioners.

The absence of a robust teaching and learning infrastructure for HPC has hindered its broader utilization and led to inefficient use of HPC systems. In response to this challenge, the HPCTechnologies Group at CDAC Pune has developed 'HPCTutor', a web-based training platform designed primarily for HPC education and training.

HPCTutor offers a unified platform that combines the presentation of learning materials with direct shell access, all within a single user interface using a web browser. The overarching goal of HPCTutor is to bridge the gap between theoretical knowledge and practical experience across various HPC modules. Within HPCTutor, the content has been structured thematically, enabling users to acquire expertise in specific domains combining theory with hands-on practice for effective learning.

Cross Platform Versatility

- Multi device compatible
 - Integration of Multiple HPC Terminals for unified access
 - Seamlessly integration of Multiple third-party tools
 - Multilingual support
 - Manage multiple users with distinct roles and permissions

User Experience

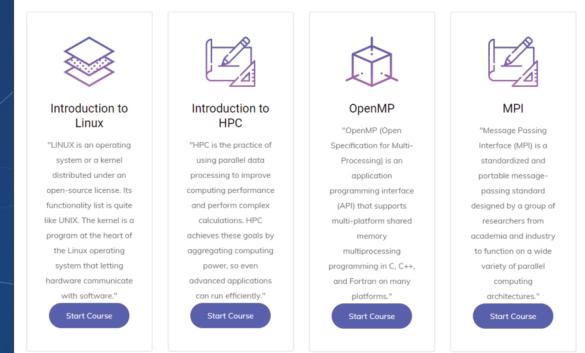
- Ease in creating Interactive content
 - Effortless and Secure Web-Based Terminal Access
 - Support for Multimedia and animation
 - Real-Time Monitoring of CPU, Memory, and Network Utilization Through Graphical Visualization during hands-on activities

Benefits

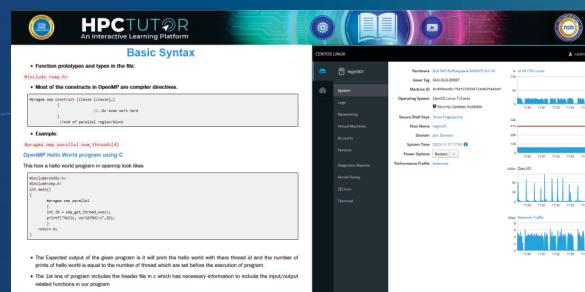
- Empowers instructor
 - Customizable course content and Easy to use
 - Effortless Tutorial Creation
 - Thematic-Based Training and Practical Exercises
 - In built spell checker named SCAYT (Spell Check as You Type)



Content to learn



Landing Page



Monitoring Page



Login Page



Hands-on Shell